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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/686,357	10/14/2003	Yoshimasa Funakawa	02197CD/HG	6706
1933 7590 01/23/2007 FRISHAUF, HOLTZ, GOODMAN & CHICK, PC			EXAMINER	
220 Fifth Avenue	•	SMITH, NICHOLAS A		
16TH Floor NEW YORK, NY 10001-7708			ART UNIT	PAPER NUMBER
,			1742	·
21				
SHORTENED STATUTORY P	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONT	HC .	01/23/2007	DADED	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	1	
	Application No.	Applicant(s)
Office Action Summary	10/686,357	FUNAKAWA ET AL.
Onice Action Summary	Examiner	Art Unit
The MAILING DATE of this communication app	Nicholas A. Smith	1742
Period for Reply	lears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>31 Or</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.	
Disposition of Claims		
4) ⊠ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or		,
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the specific process of the specif	epted or b) objected to by the the discount of the legislation of the legislation of the discount of the drawing of the drawin	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) △ Acknowledgment is made of a claim for foreign a) △ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. ☐ Certified copies of the priority documents 3. ☒ Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Application in the second	on No ed in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ate
Paper No(s)/Mail Date	6) Other:	•

Application/Control Number: 10/686,357 Page 2

Art Unit: 1742

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/4/2006 has been entered.

Status of Claims

2. Claims 1-3 remain for examination.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- 4. A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 6-264185 (JP'185) cited by applicant in IDS dated October 14, 2003.
- 6. JP'185 in paragraph 22 on page 4 discloses a process of manufacturing a high strength hot rolled analogous steel alloy plate (equivalent to sheet) comprising the steps of hot rolling at 1150C (within the claimed hot rolling temperature range of Ar3 point or

Art Unit: 1742

higher) followed by coiling at 500 to 700C (encompassing claimed coiling temperature range of 550 to 700C), which would meet the claimed process steps.

- 7. Moreover, as shown in the English abstract, JP'185 process uses a steel alloy with constituents whose wt% ranges overlap those recited by the claims and such overlap in alloy wt% ranges establishes a prima facie case of obviousness because it would be obvious to one of ordinary skill in the art to select the claimed alloy wt% ranges over the broader disclosure of the prior art since prior art teaches similar utility (components for a machine structure) and high strength properties, see MPEP 2144.05. In regards to the claimed formula, it is well settled that there is no invention in the discovery of a general formula if it covers a composition described in the prior art. In re-Copper and Foley 1943 C.D. 357, 553 O.G. 177; 57 USPQ 117, Taklatwalla v. Marburg, 620 O.G. 685, 1949 C.D. 77, and In re Pilling, 403 O.G. 513, 44 F(2) 878, 1931 C.D. 75. In the absence of evidence to the contrary, the selection of the proportions of elements would appear to require no more than routine investigation by those ordinary skilled in the art. In re Austin, et al., 149 USPQ 685, 688. In the instant case, the claimed equation limitation cover a composition selected from the range of compositions described in JP'185 (abstract).
- 8. In regards to claim limitation "a high strength hot rolled steel sheet having tensile strength of not less than 780 MPa," Applicant is reminded that JP'185 does teach the same method as the instant claimed invention by using same process and overlapping composition and therefore one would expect such a prior art method to produce a steel sheet with the claimed tensile strength. Thus the claiming of a new use, new function or

Application/Control Number: 10/686,357

Art Unit: 1742

unknown property which is inherently present in the prior art does not necessarily make the claim patentable. In re Best, 562 F.2d 1252, 1254, 195 USPQ 430, 433 (CCPA

Page 4

1977). See MPEP 2112.

Response to Arguments

9. Applicant's arguments filed 10/31/2006 have been fully considered but they are not persuasive.

10. Applicant argues:

a. Steel E (0.047%C-0.01%Si-1.62%Mn-0.91%Cr-0.05%Mo-0.143%Ti) in Table 2 of JP'185 and Steel A (0.045%C-0.05%Si-1.67%Mn-0.056%Cr-0.20%Mo-0.085%Ti) in Table 1 of the instant specification have tensile strengths of 716MPa and 820MPa, respectively, yielding unexpectedly good properties with a reduction in the amount added of additional components.

11. Examiner responds:

a. A comparison of Steel E of table 2 in JP'185 and of Steel A of table 1 in instant specification is not sufficient to establish criticality of the instant claimed composition range in that, as applicant states, compositions of Cr, Mo and Ti are different. For instance, the applicant has not demonstrated that 0.10 wt% Ti as claimed (0.02 to 0.10 wt% Ti) has better properties in comparison with 0.11 wt% as disclosed in the prior art (of 0.02-0.20 wt% Ti). It is noted that in the prior art that 0.085 wt% Ti contains significantly different Cr content (0.056 wt%, Steel A, Table 1 in specification) in comparison with Cr content (0.91 wt% Cr, Steel E, Table 2 in JP'185).

Application/Control Number: 10/686,357

Art Unit: 1742

Conclusion

- 12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas A. Smith whose telephone number is (571)-272-8760. The examiner can normally be reached on 8:30 AM to 5:00 PM, Monday through Friday.
- 13. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571)-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Page 5